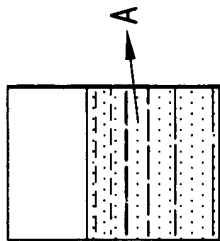




pH-Sensitive Mucoadhesive Film-Forming Gels

Composition of Gel:

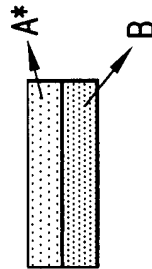
- A solvent vehicle comprising at least 25% water
- Water-insoluble swellable mucoadhesive polymer(s)
- pH-sensitive film-forming polymer(s)
- Molecule of interest



pH-Sensitive Mucoadhesive Wax-Film Composites

Composition of Wax-Film Composite:

- A*: pH-sensitive mucoadhesive layer (comprised of the components of A above less the solvent vehicle)
- B: Water-insoluble wax layer with water-soluble or water-swellable polymer



Note: Molecule of interest is contained in either A* or B, or both

FIG.1

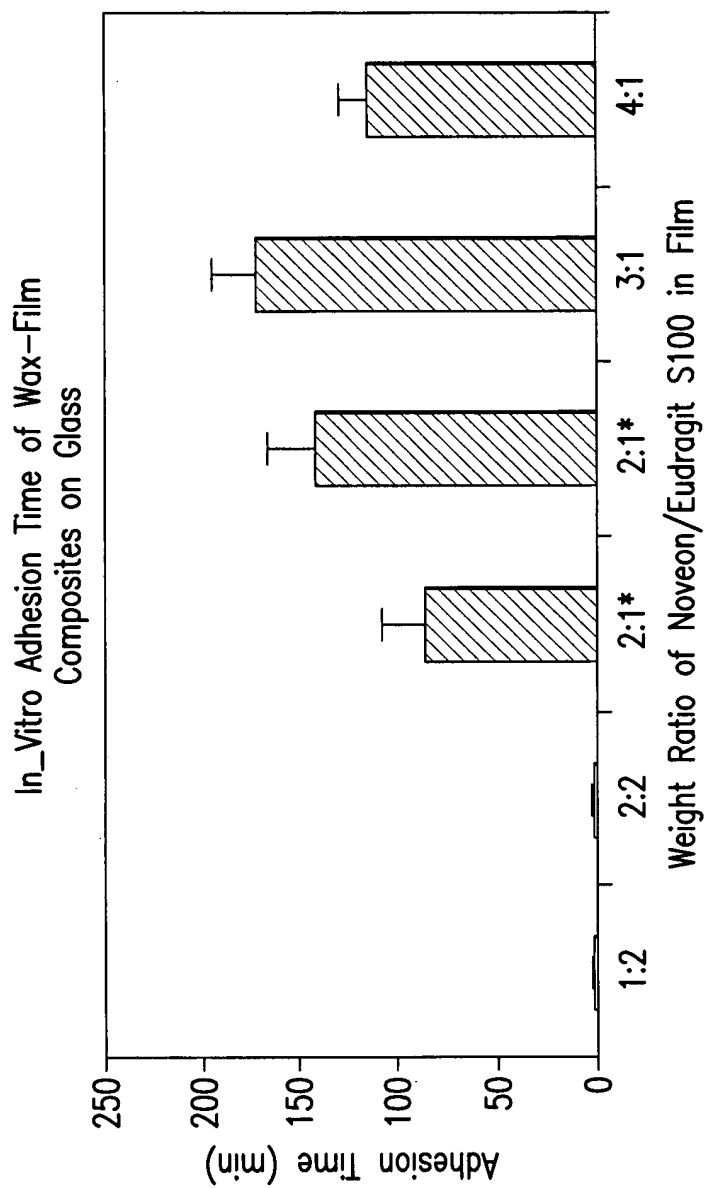


FIG.2

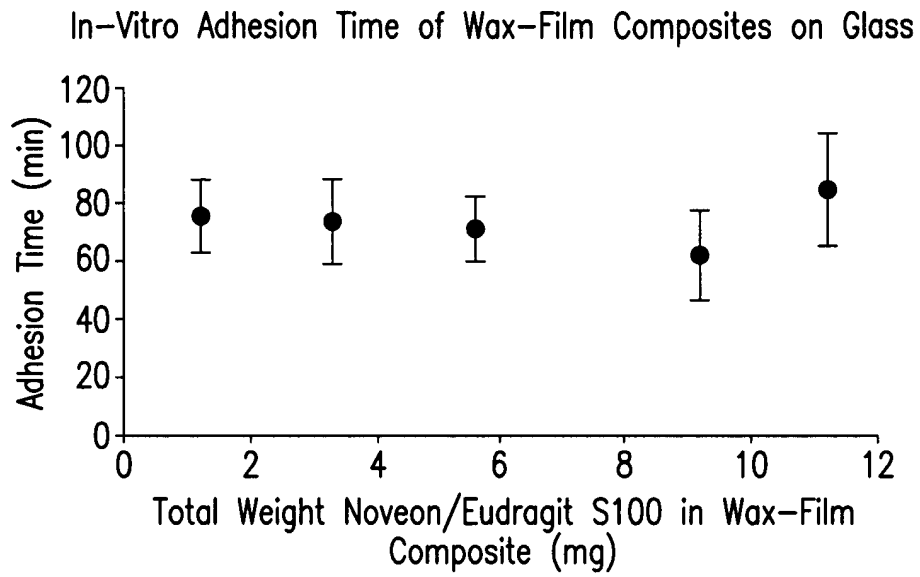


FIG.3

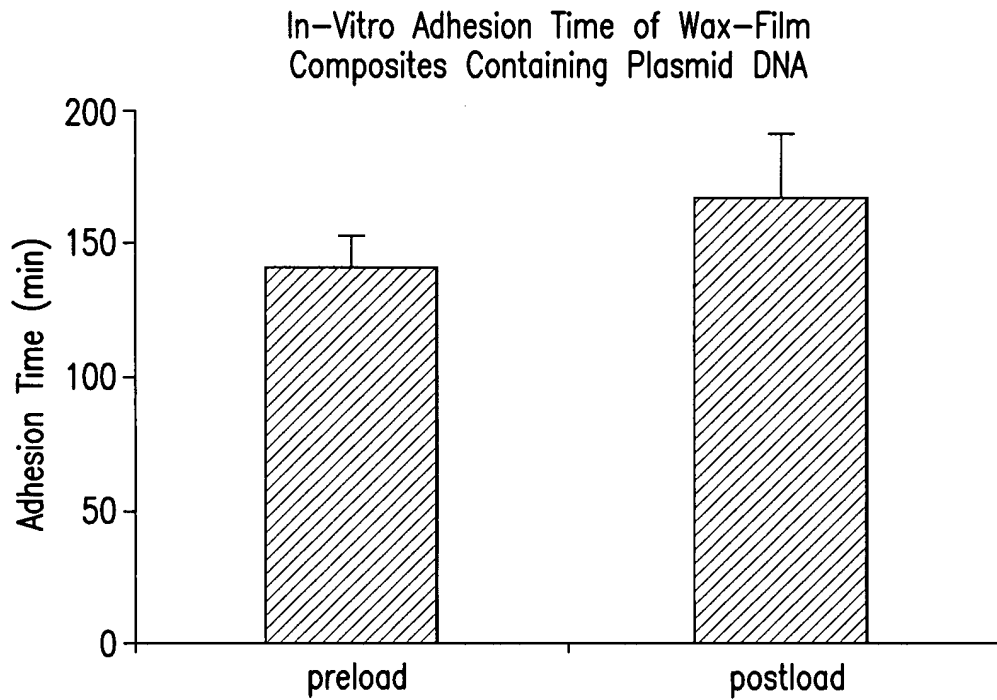


FIG.4

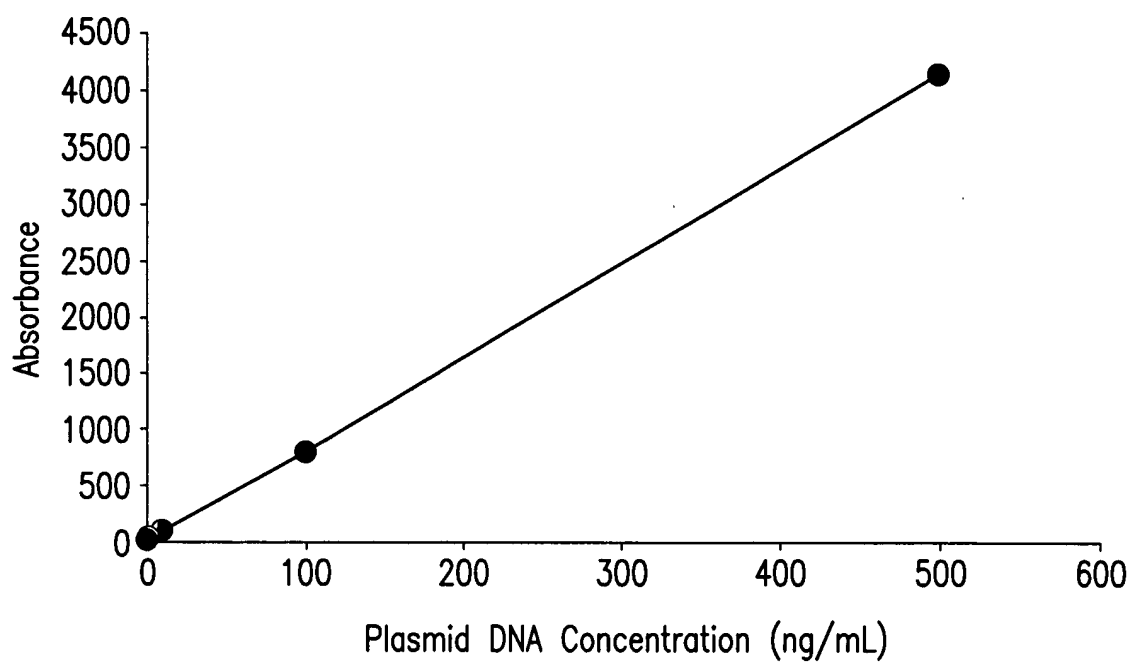


FIG.5

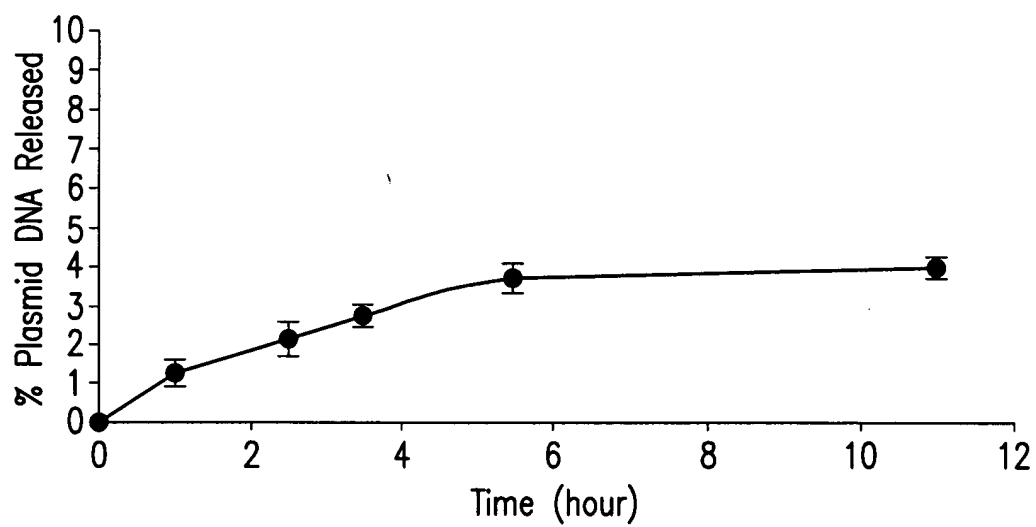


FIG.6

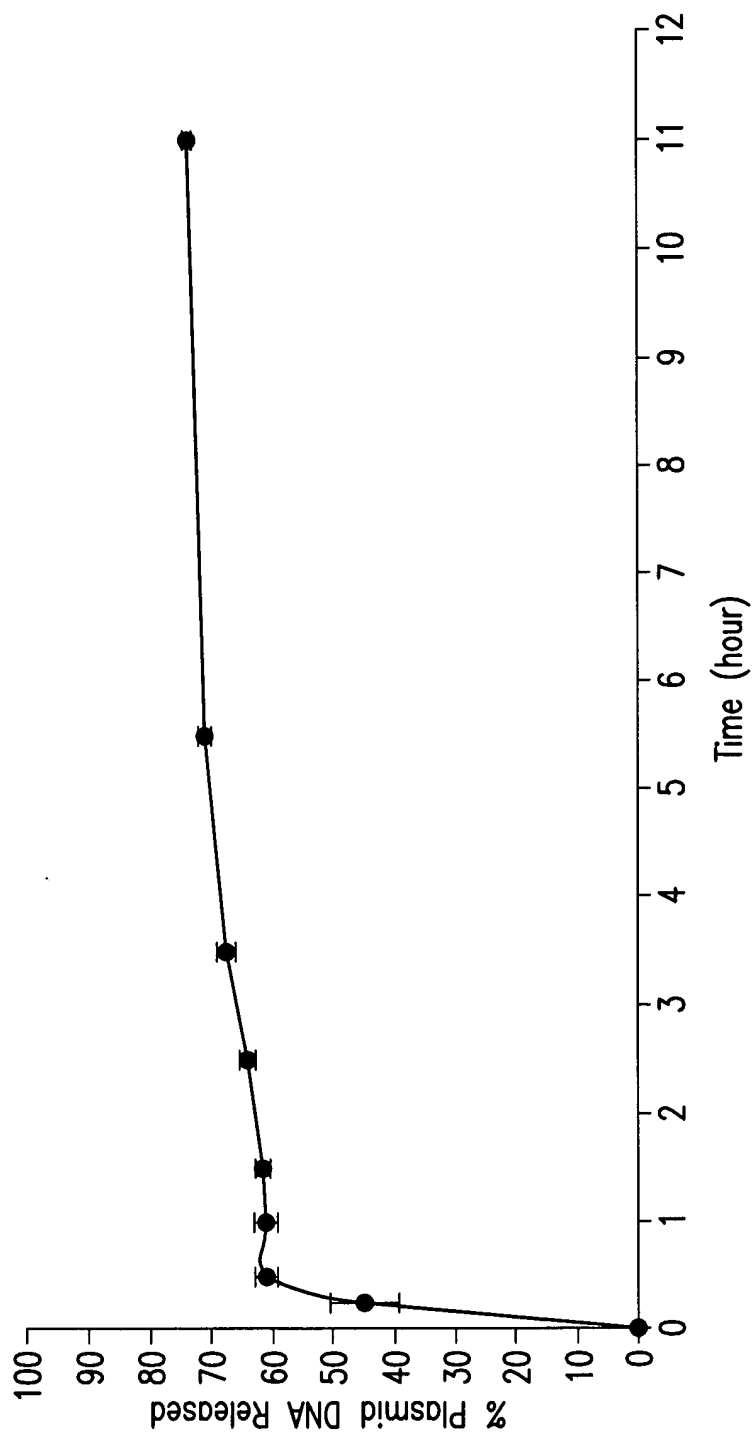


FIG. 7

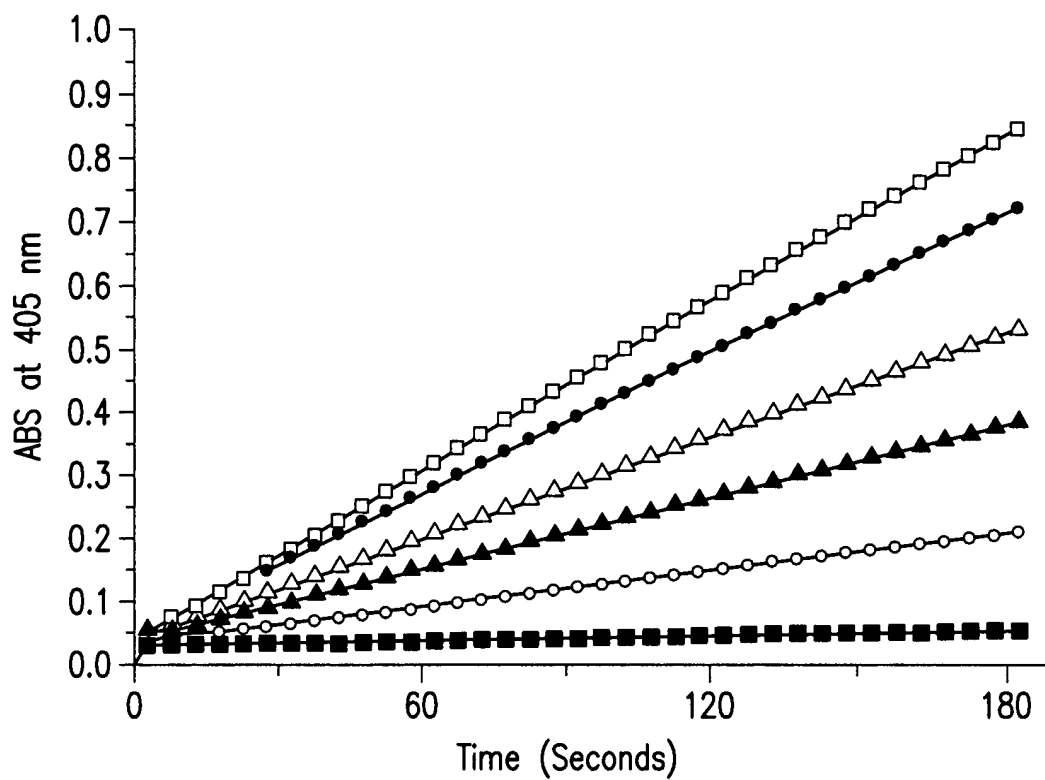


FIG. 8A

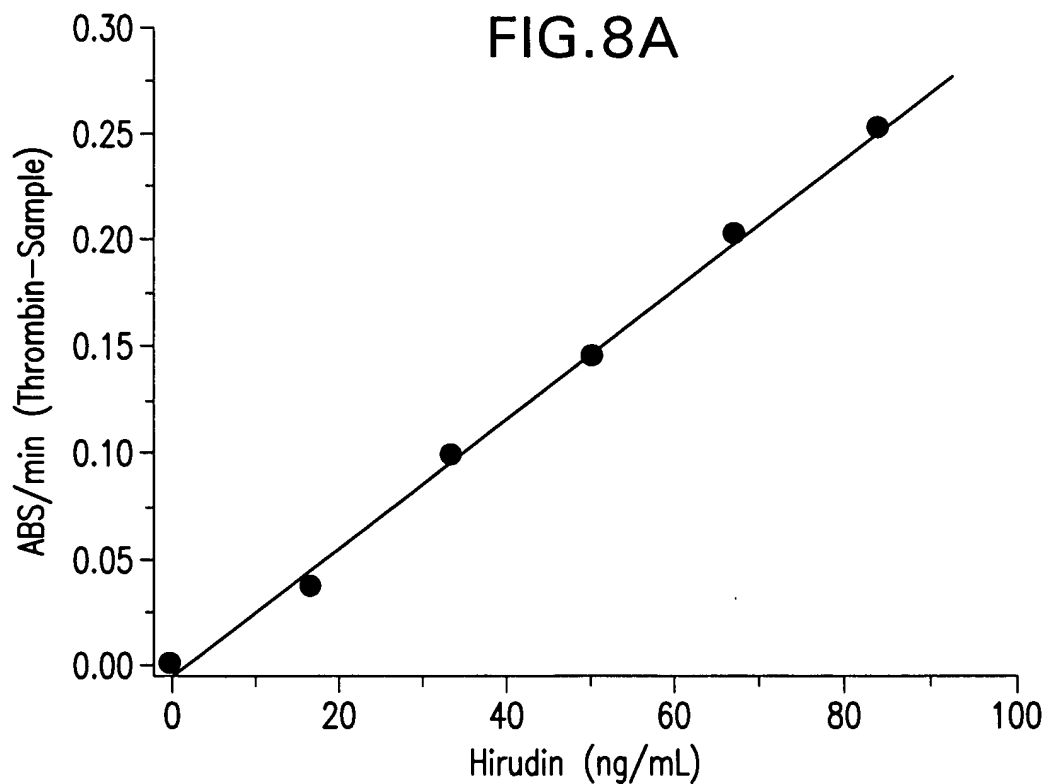


FIG. 8B

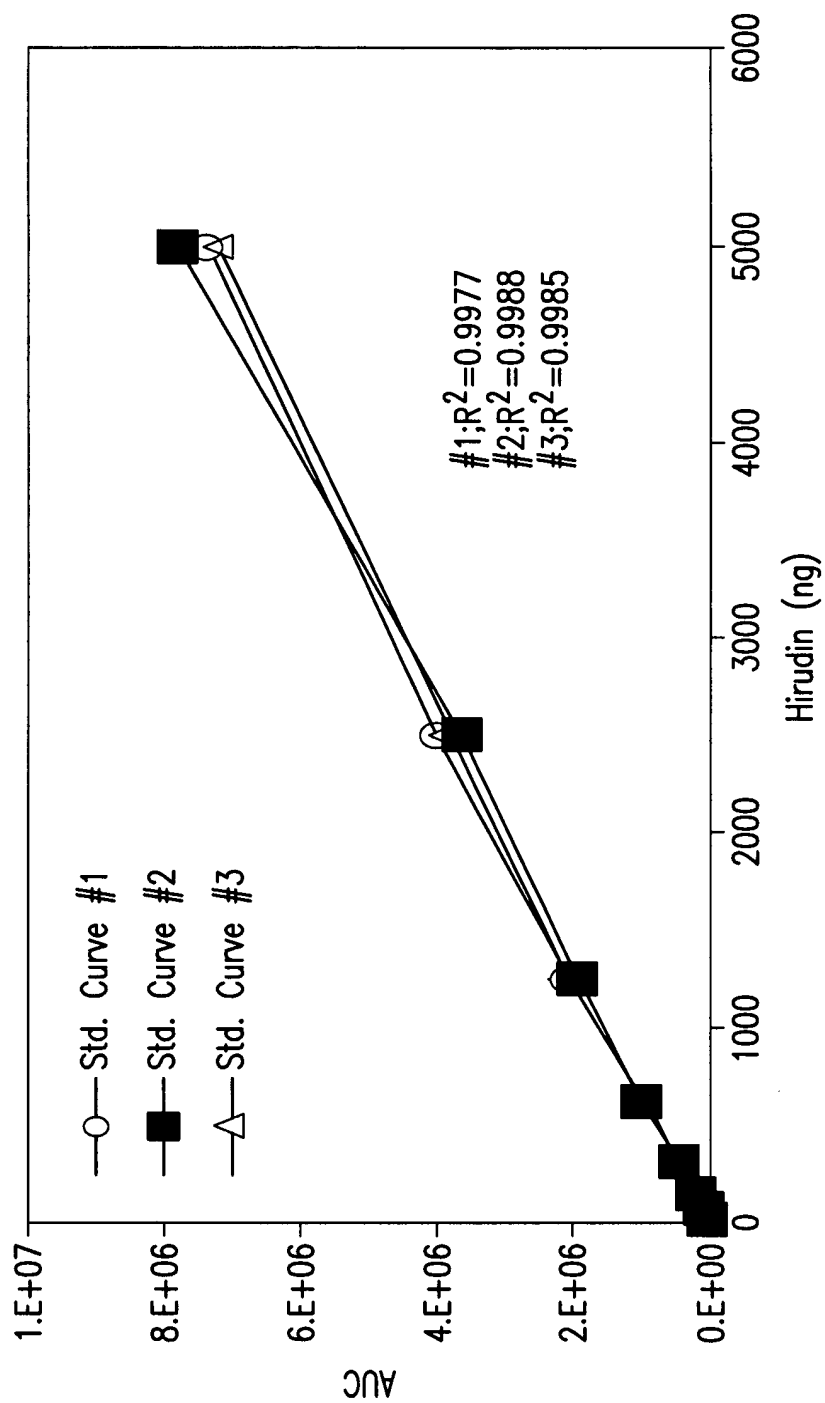


FIG. 9

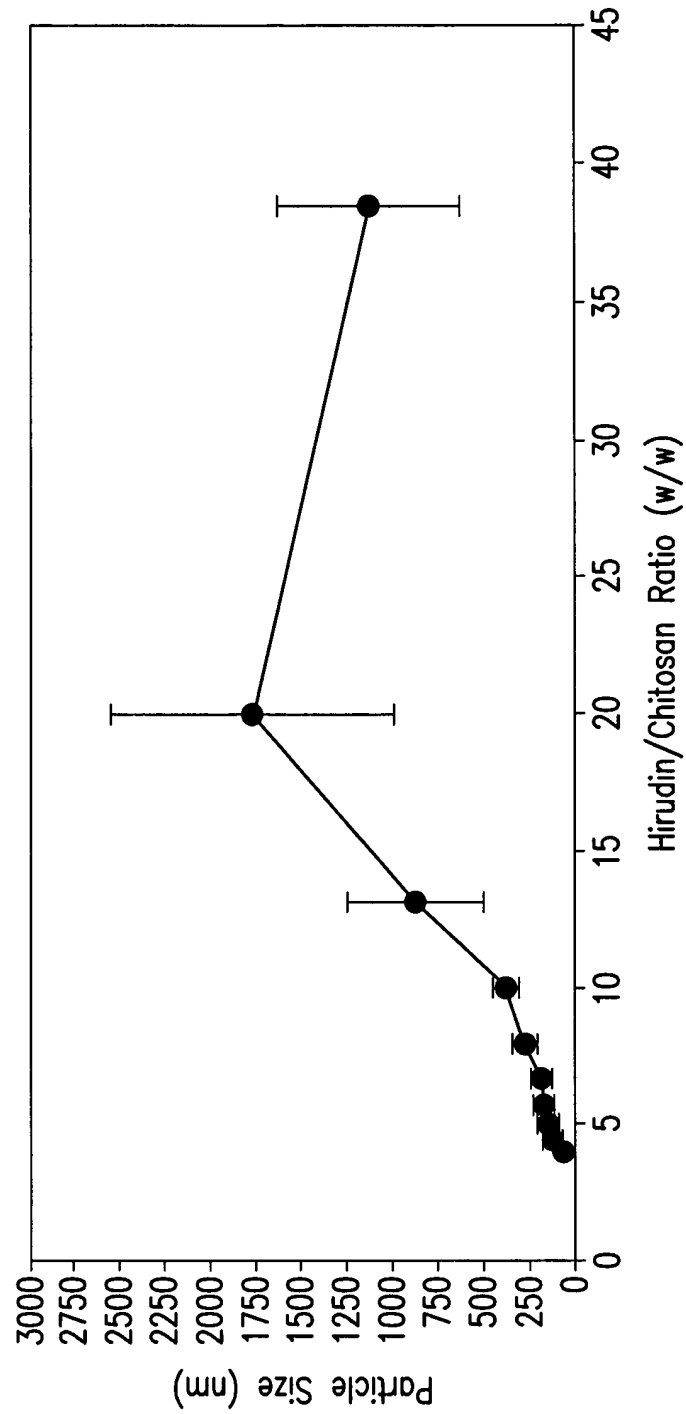


FIG.10

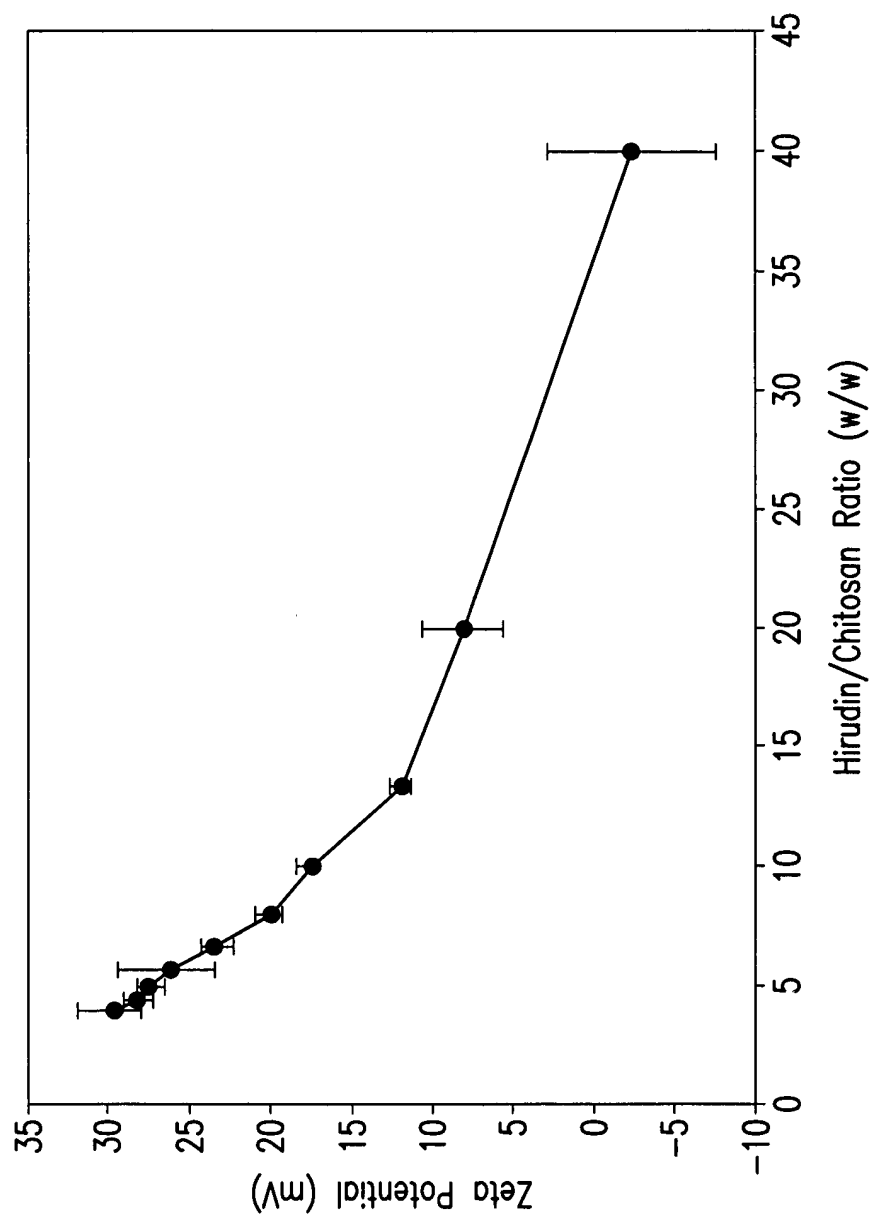


FIG.11

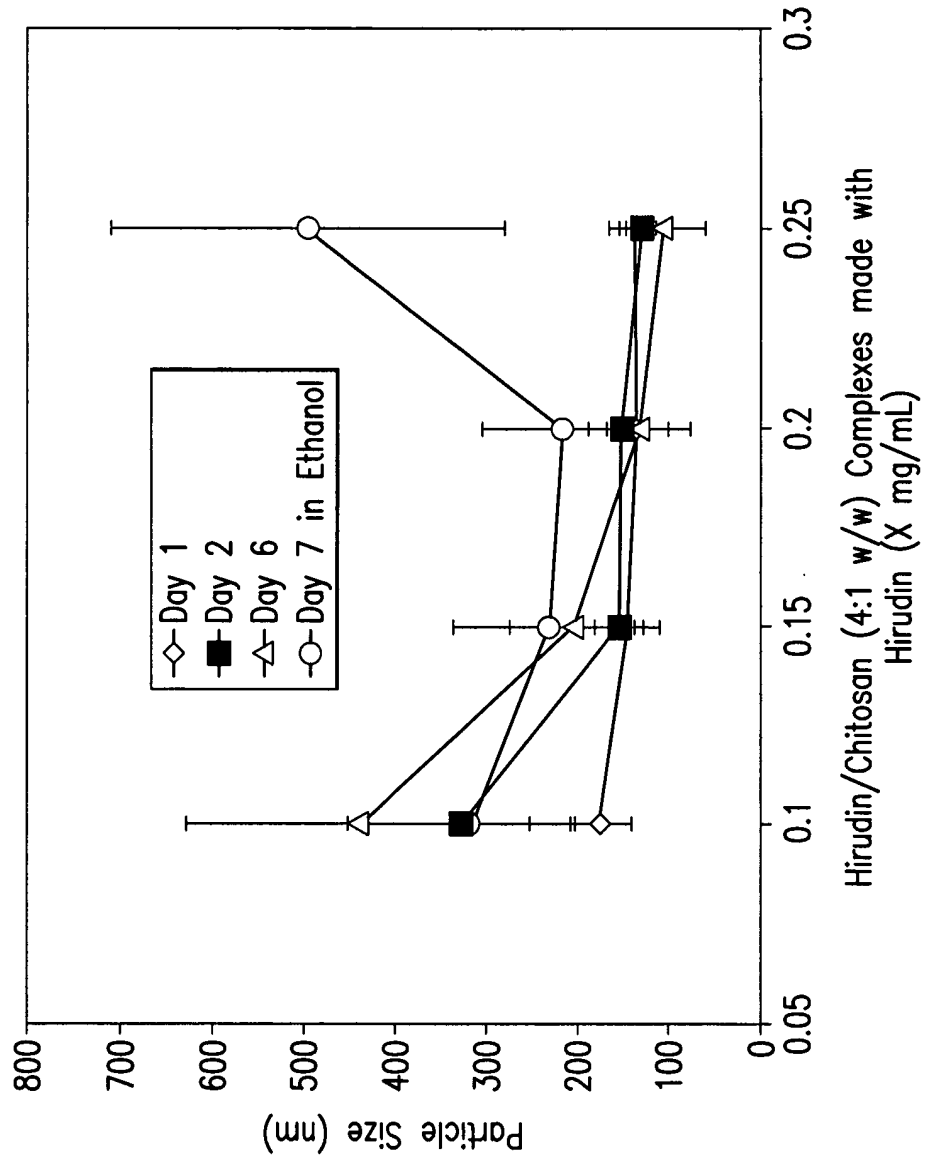


FIG.12